Attached to

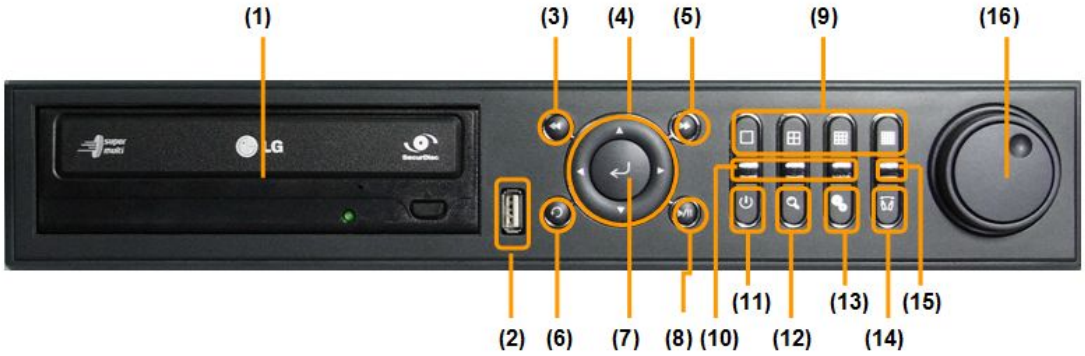
User Manual

Explanation for Each Function

- **Front Panel**
- **Rear Panel**
- **IR Remote Controller**

Version : FM-B(7K)
DVR : H.264 DVR (SATA HDD)
1st Edition : 1 Mar 2010

1. Front Panel



No	Button	Function
1	DVD Burner	Backup the recorded image by internal DVD burner
2	USB Port	USB port for mouse operation or Image backup
3	Fast Rewind	Fast rewind during playback
4	Direction Button	Move to the desired menu position
5	Fast Forward Button	Fast forward during playback
6	Return Button	Cancel setup or return to previous mode
7	Enter Button	Select value or setting
8	Play/Pause Button	Play or pause by toggle during playback
9	Screen Display Button	Select screen display mode
10	LED Indicator	Indicates system status Power, Record and Network status
11	Power Button	System startup or shutdown
12	Search Button	Go to search mode
13	Menu Button	Open system menu
14	PTZ/Focus Button	Control camera PTZ and focus
15	IR Sensor Window	Sensor Input for IR remote controller
16	Jog/Shuttle Knob	Image playback in various speed or frame by frame

1.2 USB Port

1) To backup recorded images by using USB storage device (USB Memory Stick or USB ODD).
2) System software upgrade
3) Mouse connection for system operation

1.4 Direction Button

1) Live Display & Playback Mode
   User can change channel # by using Left & Right arrow button.
   User can change display mode by using Up & Down arrow button
2) Menu Mode (when system menu is displayed)
   To move to desired menu position.
3) Pan & Tilt Mode (once PTZ Button is pressed)
   To move connected camera to desired direction.

4) Zoom & Focus Mode (when PTZ Button is pressed again)
   User can control Zoom-In & Out by using Up & Down arrow button.
   User can control Focus-In & Out by using Left & Right arrow button

1.6 Return Button

To cancel setup or return to previous menu

NOTE	**[Cold Reboot]** If DVR is not properly operated during normal operation, booting or shutdown process, user can activate cold reboot by using [RETURN] button on front panel. Keep pressing [RETURN] button for about **30~45 seconds**. Then, DVR reboots and whole configuration will be restored to factory default value.

1.7 Enter Button

To select value or setting

NOTE	**[Quick Backup]** Under playback mode, user can press [ENTER] button to set backup “start” time. Once “Quick backup starts” message is shown, and then press the same [ENTER] button again to set backup “end” time. Then, backup menu window will be popped up to save the selected video images.

1.14 PTZ Button

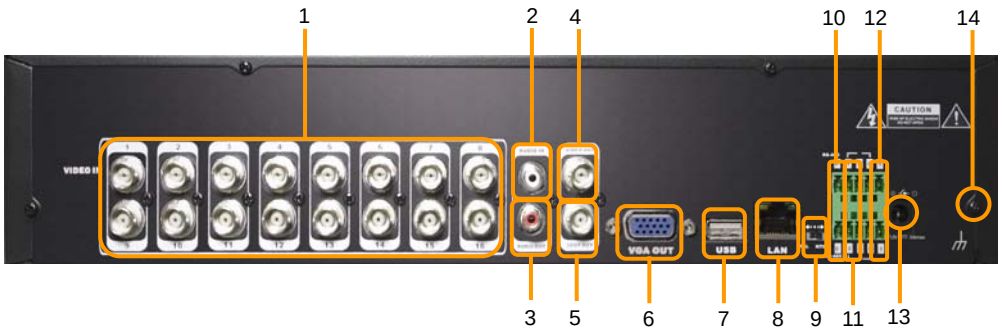
1) Once pressed, DVR is changed to Pan & Tilt mode.
   User can control Pan & Tilt operation by using Direction Button
2) If pressed again, DVR is changed to Zoom & Focus mode
   User can control Zoom & Focus operation by using Direction Button

1.16 Jog/Shuttle Knob

Jog/Shuttle dial is used to playback the recorded images. The inner dial is called Jog and the outer dial is called Shuttle. The Jog/Shuttle dial has two kinds of functions.

1) The Shuttle is used to speed up the playback speed of images by clockwise or anti-clockwise. Playback speed is indicated as x2, x4, x8, x16, x32 on the lower end of the screen.
2) The Jog is used to find the recorded image frame by frame. Turn the Jog dial clockwise or anti-clockwise to see the image frame by frame during pause state.

2. Rear Panel



No	Name	Description
1	Video-In	Connect camera. (Supports NTSC/PAL)
2	Audio-In	Connect the audio input device (with amplifier)
3	Audio-Out	Connect the audio output device (with amplifier)
4	Video-Out	Connect the CCTV monitor
5	Spot-Out	Connect the spot monitor
6	VGA-Out	Connect the P/C (VGA) monitor
7	USB Port	USB port for mouse operation or Image backup
8	LAN Port	10/100 Ethernet connection terminal
9	NTSC/PAL Selection	Select the video signal type
10	RS-485 Port	Connect the PTZ camera or external keyboard controller
11	Sensor Input	Connect the external sensor
12	Alarm Output	Connect the external alarm device
13	Power Input	Power cable connection (Default : 12 V)
14	Grounding Terminal	For device grounding

2.5 Spot-Out

The spot monitor can be used to display input images in automatic switching mode.

2.7 USB Port

1) To backup recorded images by using USB storage device (USB Memory Stick or USB HDD).
2) System software upgrade
3) Mouse connection for system operation

2.8 LAN Port

To connect RJ-45 jack of LAN cable.
Consult network administrator for proper network configuration.

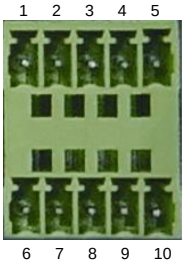
2.9 NTSC/PAL Switch

Turn off the power of DVR and select the NTSC/PAL switch correctly. Then turn on the power again.

2.10~12 Terminal Block

1) Connect sensors (dry contact type) with each ground (GND) line to “G” pin.
2) Connect various alarm devices controlled by relay output.
3) Connect RS-485 cable for the control of PTZ camera and/or external keyboard controller

NOTE	Support both N/O (Normal Open) and N/C (Normal Close) types of sensor. If connected sensor is not functioning, ensure wiring is correct. The connection method may differ according to the type of P/T/Z controller. Enquire to your vendor for guidance.

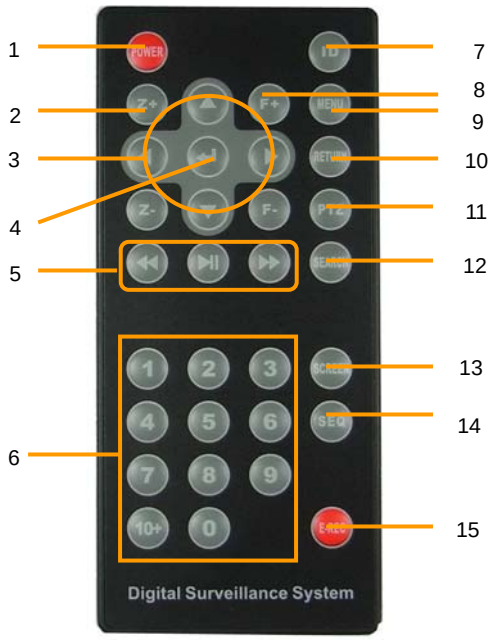


No	Sensor
2	Sensor 1
3	Sensor 2
7	Sensor 3
8	Sensor 4
4	Ground
9	Ground

No	Alarm
5	Alarm 1 (+)
10	Alarm 1 (+)

No	PTZ
1	RS 485 D+
6	RS 485 D-

3. IR Remote Controller



No	Functions
1	Power Button
2	Zoom (In & out) Button on PTZ Mode
3	Direction Button (Left/Right/Up/Down)
4	Enter (Selection) Button
5	Playback Button on Search Mode (Fast Backward/Playback/Stop/Fast Forward)
6	Numeric Button
7	ID Selection Button
8	Focus Button on PTZ Mode
9	Menu Button
10	Return Button
11	PTZ Button
12	Search Button
13	Screen Mode Button
14	Auto-Sequence Button on Live Display Mode
15	Instant (Emergency) Recording Button

Set the ID # to be same as the one in the DVR. Default ID # for DVR and IR Remote Controller is “0”. All DVR(s) have same default ID when it is out of the factory. Therefore, when the default value is used, one IR Remote Controller can control several DVR(s) at once. To prevent this, it is recommended to set different ID for each DVR(s).

NOTE

[How to setup the ID # in IR Remote Controller]

1) Keep pressing ID selection button for about 5 seconds.
2) Set the ID number by pressing numeric button on IR Remote Controller. ID number is available from 000 up to 255.
3) You have to press numeric button as three-digit number format. For example, press “000” for 0, “023” for 23, “234” for 234.